

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended): A computer implemented file transformation system, comprising:
 - ~~a at least one~~ file associated with one or more unstructured properties;
 - an item that has one or more structured properties and is a structured object representation of the file; and
 - a file property handler that manipulates at least one of the following: ~~to~~ manipulate the unstructured properties based on changes to the structured properties in accordance with one or more ~~and the~~ structured properties associated with a structured object environment based on changes to the unstructured properties.
2. (Original): The system of claim 1, the file property handler performs at least one of an extraction and a transformation in order to promote the unstructured properties to the structured properties.
3. (Original): The system of claim 1, the file property handler performs at least one of an extraction and a transformation in order to demote the structured properties to the unstructured properties.
4. (Original): The system of claim 1, further comprising a file property manager to facilitate communications between applications working with unstructured property stream/file and applications working with a structured object representation of a file.

5. (Currently amended): The system of claim 1, the file property handler facilitates a promotion operation when a file API based application [[]] modifies properties by updating a file stream for a structured object store item.
6. (Original): The system of claim 5, the structured object store item is a file-backed item.
7. (Currently amended): The system of claim 1, the file property handler facilitates a demotion operation when an application queries for and modifies items employing a structured store Application Programming Interface (API) that manipulates a a ~~[[the]]~~ file-backed item.
8. (Original): The system of claim 1, the file property handler is registered to process one or more selected file extensions.
9. (Currently amended): The system of claim 4, the file property manager on receiving a notification of an ~~[[the]]~~ unstructured byte stream representation of the file having been modified calls a file property handler for it with a pointer to the byte stream of the file to be promoted.
10. (Original): The system of claim 1, the file property handler is associated with an abstract class that defines methods for promotion and demotion.
11. (Original): The system of claim 10, the abstract class includes at least one of a BaseFilePropertyHandler, a promote method, a demote method, a first promote method, a store serialized item method, and a retrieve serialized item method.
12. (Original): The system of claim 1, further comprising an application programming interface (API) that allows applications to modify a file-backed item.

13. (Original): A computer readable medium having computer readable instructions stored thereon for implementing the file property handler of claim 1.

14. (Currently amended): A computer implemented system to facilitate data transformation, comprising:

means for exposing unstructured file properties to a structured store application, the unstructured file properties are related to a file that is an unstructured byte stream;

means for transforming the unstructured file properties into structured item properties associated with the structured store application, the structured item properties are related to an item that is a structured object representation of the file; and

means for updating the structured item properties in the structured store application.

15. (Original): The system of claim 14, further comprising means for transforming the structured item properties into unstructured file properties.

16. (Currently amended): A computer implemented method to facilitate data item migration, comprising:

modifying a file ~~an item~~ in a structured store namespace via utilizing ~~from~~ a file API based application; and

promoting one or more properties associated with the file ~~item~~ to accordingly ~~update properties associated with an item that is be in accordance with properties~~ associated with the structured store namespace, the item is a structured object representation of the file in an object store.

17. (Original): The method of claim 16, further comprising demoting one or more properties associated with the item to be in accordance with the file API based application.

18. (Original): The method of claim 16, further comprising registering a file property handler to facilitate promoting or demoting the one or more properties.

19. (Original): The method of claim 16, further comprising de-queuing a change item.
20. (Original): The method of claim 16, further comprising retrieving a structured item for a selected item path.
21. (Original): The method of claim 16, further comprising morphing an item's type/structure or changing an item type/structure.
22. (Original): The method of claim 16, further comprising automatically extracting properties and updating an item.
23. (Original): The method of claim 16, further comprising marking modified parts of an item as promoted.
24. (Currently amended): The method of claim 16, further comprising applying changes to the item [[to]] in the ~~structured~~ object store.
25. (Original): The method of claim 17, further comprising determining the item for updates to parts of the item.
26. (Original): The method of claim 17, further comprising querying an item store for a file property handler registration.
27. (Original): The method of claim 26, further comprising loading the file property handler into a cache.
28. (Original): The method of claim 17, further comprising automatically identifying fields to be updated.

29. (Original): The method of claim 17, further comprising reading changes from an item and updating file properties.
30. (Original): The method of claim 29, further comprising at least one of sending the item changes to the store and closing a stream.
31. (Currently amended): A computer readable medium having a data structure stored thereon, comprising:
- a first data field related to an unstructured property associated with file data;
 - a second data field related to a structured property associated with ~~structured object (item)~~ item data, the item data is related to an item that is a structured object representation of a file, which is related to the file data; and
 - a third data field that is employed to correlate the unstructured property data with the structured property data.